

ABHAY VENKATESH

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OVERVIEW

- Abhay Venkatesh is a *Tech Lead* at Anduril Industries, where he focuses on Autonomy Infrastructure, Simulation Infrastructure, Command-And-Control, and Lattice
- Abhay is mentored by **Jared Newman**, *Head of Platform* at Anduril, and **Nabil Enayet**, *Group Lead for Platform* at Anduril
- Prior to his Tech Lead role, Abhay worked directly under **Brian Schimpf**, *CEO and Co-Founder of Anduril*, and *ex-Director of Engineering at Palantir*, on Perception problems ranging from Edge Inference, Quantized Learning and Inference, to Object Detection and Mapping
- Abhay graduated from the University of Wisconsin-Madison with *Distinction and Departmental Honors with a Bachelor of Science in Computer Sciences and Mathematics*
- At the University of Wisconsin-Madison as an *Undergraduate Research Assistant*, Abhay worked on Computer Science research, focusing on Machine Learning, Computer Vision, Robotics, Human-Computer Interaction, Internet of Things, and Big Data Systems
- For his Machine Learning and Computer Vision Research, Abhay was advised by **Dr. Vikas Singh**, *Professor of Computer Science and Bioinformatics* at the University of Wisconsin-Madison
- For his Big Data Systems Research, Abhay was advised by **Dr. Shivaram Venkataram**, *Assistant Professor of Computer Science* at the University of Wisconsin-Madison
- For his Human-Computer Interaction and Robotics Research, Abhay was advised by **Dr. Bilge Mutlu**, *Associate Professor of Computer Science* at the University of Wisconsin-Madison
- Abhay has also worked at Facebook as a *Software Engineer Intern* on the News Feed Integrity Team, where he worked on machine learning, modeling, and product to improve the quality of the Facebook News Feed
- At Stanford University, Abhay was a *Research Intern* working on Robotics, Human-Computer Interaction, and Software Platform research advised by **Dr. Wendy Ju**, and **Dr. Michael Bernstein**
- In High School, Abhay was the *Valedictorian* for his breadth of excellence ranging from music and competitive quizzing to academics and entrepreneurship

EDUCATION

Stanford University	Stanford, CA
Computer Science (Non-Degree)	<i>Summer Session (GPA 4.0)</i>
University of Southern California	Los Angeles, CA
B.S. Computer Science	<i>Admitted but did not enroll</i>
University of Wisconsin-Madison	Madison, WI
B.S. Mathematics, Computer Sciences (Honors)	<i>Graduated with Distinction</i>

PUBLICATIONS

Generating Accurate Pseudo-Labels in Semi-Supervised Learning and Avoiding Overconfident Predictions via Hermite Polynomial Activations, CVPR 2020

Generating Accurate Pseudo-labels via Hermite Polynomials for SSL Confidently, Best Student Paper at MMLS 2019

Nondecomposable Data Dependent Regularizers offer Significant Performance Gains, DeepMath 2019

Optimizing Nondecomposable Data Dependent Regularizers via Lagrangian Reparameterization offers Significant Performance and Efficiency Gains, AAAI 2019, Ranking method on the Microsoft COCO Leaderboard

The Case for Unifying Data-loading in Machine Learning Clusters, HotCloud 2019, In Collaboration with Microsoft Research

Learning View Invariant Semantic Segmentation for UAV Video Sequences, SDM 2018, In Collaboration with American Family Insurance

TEST SCORES

GRE Composite 99th Percentile
GRE Analytical Writing 99th Percentile
GRE Verbal Reasoning 98th Percentile
SAT Math 97th Percentile

HIGHLIGHTED COURSEWORK

Stanford CS 161 *Design and Analysis of Algorithms*
UW-Madison CS 564 *Database Management Systems*
UW-Madison CS 838 *Graduate Learning Methods in Computer Vision*
UW-Madison CS 766 *Graduate Computer Vision*
UW-Madison CS 760 *Graduate Machine Learning*
UW-Madison CS 744 *Big Data Systems*
UW-Madison CS 540 *Artificial Intelligence*
UW-Madison CS 537 *Operating Systems*
UW-Madison Math 531 *Advanced Probability Theory*
UW-Madison Math 525 *Linear Programming*
UW-Madison Math 521 *Analysis I*
UW-Madison Math 522 *Analysis II*

AWARDS

Edison Award	USA
<i>Awarded to Anduril for the Ghost Product which Abhay contributed to</i>	2021
Cornell, Maryland, and Max Planck Pre-Doctoral Research Fellowship	Germany
<i>Internationally recognized award, fully-funded seminar at the Max-Planck Institute</i>	2018
Hilldale Undergraduate Research Fellowship	Madison, WI
<i>Research award and funding</i>	2018
Phi Kappa Phi Nominee	Madison, WI
<i>Top 7.5% of all juniors</i>	2018
Course Citation	Madison, WI
<i>CS 564: Database Management Systems</i>	2018
The Hub CS Club Coding Competition	Madison, WI
<i>1st place</i>	March, 2017
Dean's Award of Excellence	Madison, WI
<i>Awarded to Madison Enactus of which Abhay was the VP of Technology</i>	2016
Best Social Entrepreneurship Project, Transcend	Madison, WI
<i>Awarded to Madison Enactus of which Abhay was the VP of Technology</i>	2016
John W. Jung Memorial Scholarship	Madison, WI
<i>Awarded by UW-Madison for leadership, excellence, and service.</i>	2016
Dean's List	Madison, WI
<i>University of Wisconsin-Madison</i>	2016
High School Valedictorian	
<i>To the best overall student</i>	December, 2015
National 3rd Place in Top Tech Quiz	
<i>Prestigious national award out of 15,000 participants across the country</i>	December, 2014
Acknowledgement by Head of State	
<i>For Founding a Successful Not-For-Profit</i>	December, 2014
State Recommendation	
<i>For Founding a Successful Not-For-Profit</i>	December, 2014